

CLAIMS:

1. A system for detecting an abnormality in a physiological condition of a user and for alerting people to said abnormality, said system comprising monitor means for monitoring a signal representative of the physiological condition, said monitor means comprising:

- 5 - sensor means arranged to be located on the body of the user for detecting said signal;
- detection means actuated by said sensor means and arranged to process said signal in order to derive a feature in the signal characteristic to said abnormality;
- alarm means arranged to trigger an alarm signal upon a detection of said 10 feature by the detection means; and
- transmission means arranged to transmit the alarm signal to a station responsive to said alarm signal,
characterized in that the detection means are arranged on a user-side of the system, the alarm signal being the sole signal transmitted by the monitor means to said station.

15 2. A system according to claim 1, characterized in that the station is a stationary home-based station arranged to forward the alarm signal to a remote service center.

20 3. A system according to claim 2, characterized in that said home-based station is further arranged to control a domestic device.

25 4. A system according to claim 1, characterized in that the station is a mobile station arranged to forward the alarm signal to a remote service center and in that said system further comprises positioning means actuated by the alarm means, said positioning means being arranged to determine a location of the user and to transmit a signal representative to said location to said remote service center.

5. A system according to any of the preceding claims, characterized in that the user-side of the system further comprises range detection means arranged to validate that the user is located within an operational range of the station.
- 5 6. A system according to any of the preceding claims, characterized in that said abnormality in the physiological condition is a condition of the cardiac arrest.
7. A system according to claim 5, characterized in that the system further comprises an automatic external defibrillator device provided with a telephone module
- 10 actuable by the remote service center in case of an emergency.
8. A system according to any of the preceding claims characterized in that the monitor means further comprise a motion sensor arranged to monitor a physical activity of the user.
- 15 9. A system according to claim 8, characterized in that the monitoring means are integrated in a wearable garment.